

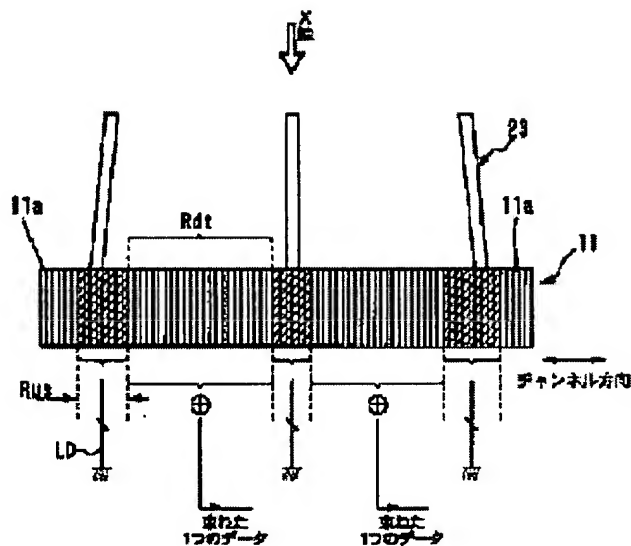
X-RAY DETECTOR AND X-RAY IMAGING INSTRUMENT

Patent number: JP2000093418
Publication date: 2000-04-04
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Classification:
- international: A61B6/03; G01T7/00
- european:
Application number: JP19980268738 19980922
Priority number(s):

Abstract of JP2000093418

PROBLEM TO BE SOLVED: To provide an X-ray detector and an X-ray imaging instrument by which a proportion occupied by a dead area on an X-ray incident surface is minimized, the working cost of a scattered beam removing collimator is restricted and also a sufficient sensitivity correction processing is executed in collection data.

SOLUTION: These instruments are provided with a two-dimensional detector 11 consisting of the array of plural X-ray detecting elements 11a being smaller than an X-ray data collecting pitch and the grid-shaped scattered beam removing collimator 23 disposed on the incident surface of two-dimensional detecting equipment 11. Moreover, they are provided with a means for setting the dead area at every data collection unit in accordance with conditions such as the geometric relation of detection, the working precision of the collimator and the movement of an effective focused localization and the means for adding the outputs of the plural X-ray detecting elements 11a belonging to the remaining data collection area of the dead area at every data collection unit in terms of a position and collecting them as one kind of data.



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